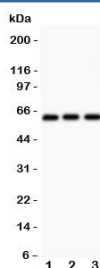


Perforin Antibody (R31574)

Catalog No.	Formulation	Size
R31574	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	5551
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Perforin antibody is available for research use only.



Western blot testing of Perforin antibody and Lane 1: HeLa; 2: COLO320; 3: HEPG2.
Predicted/observed size ~61KD



Western blot testing of Perforin antibody and recombinant human protein (0.5ng)

Description

Perforin-1 is a protein that in humans is encoded by the PRF1 gene. It is mapped to 10q22.1. PRF1 is a cytolytic protein found in the granules of Cytotoxic T lymphocytes (CTLs) and NK cells. Upon degranulation, it inserts itself into the target cells plasma membrane, forming a pore. The lytic membrane-inserting part of Perforin is the MACPF domain. This region shares homology with cholesterol-dependent cytolysins from Gram-positive bacteria. PRF1 has structural and functional similarities to complement component 9 (C9). Like C9, this protein creates transmembrane tubules and is capable of lysing non-specifically a variety of target cells. This protein is one of the main cytolytic proteins of cytolytic granules, and it is known to be a key effector molecule for T-cell- and natural killer-cell-mediated cytotoxicity. PRF1 is thought to act by creating holes in the plasma membrane which triggers an influx of calcium and initiates membrane repair mechanisms. These repair mechanisms bring perforin and granzymes into early endosomes.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Perforin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 175-555) was used as the immunogen for this Perforin antibody.

Storage

After reconstitution, the Perforin antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.